

Abstract

5 A control circuit and methods for controlling gas
valves via a relay are provided. In one illustrative
embodiment, a control circuit includes or is connected to
a relay that controls the opening and/or closing of a gas
valve. The control circuit may also include a failsafe
10 circuit that has at least one input that can be connected
to a control device and at least one output that can be
connected to the relay. In some cases, the fail-safe
circuit may only supply an output voltage and/or current
to the replay for opening the gas valve if the input
15 signal received from the control device includes at least
two different successively applied frequency signals.
Other methods and embodiments are also contemplated.